

# LIAM DUNCAN

## Software Engineer

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lmdncn.github.io/liam-duncan-development

Software Engineer with proven processes leveraging AI agents to supercharge the development of scalable full-stack applications and microservices. Experienced in domain-driven design, event-driven architecture, and clean code practices, and recognized for leading teams and mentoring developers to deliver high-quality, maintainable systems.

## EXPERIENCE

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### Software Developer

Feb 2025 – Jul 2025

*Float Financial*

- Modernized a \$100M+ payments API, enabling faster rollout of payout workflows, by migrating from Django DRF to Pydantic and applying Template Method, Strategy, and Policy patterns to decouple domain logic and improve extensibility. (*Python, Django*)
- Built an automated data pipeline with Claude AI integration to enrich transactions with Canadian business classification and scoring, delivering enhanced spending insights through client updates and a Retool admin interface. (*Snowflake*)
- Cut endpoint response times 50%, improving customer satisfaction, by optimizing queries and backend logic for high-volume retrieval. (*DRF ORM, SQL*)

### Career Break

Jan 2024 – Jan 2025

- Took a year-long career break to travel across four continents and 15+ countries, gaining valuable global insights and renewed energy.

### Engineering Technical Lead & Manager

Nov 2021 – Jan 2024

### Senior Software Developer

Jul 2021 – Nov 2021

*Moves Financial*

- Led the banking vertical team, coding and shipping core features while managing engineers and product delivery. (*React Native, Node.js, Express.js, Redis, MongoDB*)
- Developed distributed event-streaming microservices, processing millions in member funds reliably, integrating with Unit BaaS. (*Redis Streams, MongoDB CDCs*)
- Built proprietary adjudication and repayment services, improving cash advance margins by 200+ points.
- Mentored and grew a high-performing team, earning 4.8/5 manager feedback.

### Senior Software Developer

Oct 2020 – Jul 2021

### Software Developer

Jul 2018 – Oct 2020

### Software Developer Intern

May 2017 – Sep 2017

*Konrad*

- Promoted to Senior ahead of schedule for technical leadership and delivery on key client projects.
- Delivered a large scale e-commerce platform, by leading the architecture and development of multiple full-stack applications. (*React, Apollo, NestJs, GraphQL, PostgreSQL, Jest, Puppeteer*)
- Reduced fraud risk on millions of financial transactions by developing big data microservices with graph theory and machine learning models. (*Node.js, Express, PostgreSQL, FlywayDB, Mocha, Chai*)
- Improved sales team productivity for a financial client, by enhancing a hybrid web app and advising on development practices. (*React, Webpack, Cordova*)
- Accelerated deployments across multiple projects, by building CI/CD pipelines and scalable Kubernetes container environments. (*GitLab CICD, Kubernetes, Openshift, Docker*)

- Drove developer learning culture, by creating and delivering Power Hours on new technologies.
- Strengthened team capability by mentoring junior developers and conducting candidate interviews during the hiring process.

### Software Developer

Sep 2018 – Oct 2019

*BrainStation*

- Delivered and maintained LMS, CRM, and CMS platforms serving 100k+ professionals. (*C#, .NET, React, Redux, SQL*)
- Built a custom videotelephony platform for hosting online classrooms. (*Amazon Chime SDK*)
- Enhanced marketing and sales effectiveness by developing websites, analytics tools, and API integrations. (*SendGrid, Salesforce, Intercom, Google*)
- Applied DevOps and Agile practices, shipping biweekly releases. (*GitLab CI/CD, AWS, Raygun*)

## EDUCATION

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### Western University

2014 - 2018

Bachelor of Engineering Science in Software Engineering

**Dean's List Award**

## PERSONAL PORTFOLIO

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### TripTribe

Sep 2025

- Architected and built a full-stack social travel platform using a microservices architecture, event-driven design, and domain-driven principles. (*Next.js, React, TypeScript, Node.js, PostgreSQL, MongoDB, Prisma ORM, Redis PubSub*)
- Improved development velocity and practices by leveraging AI coding tools, running multiple parallel agents on separate worktrees to supercharge iteration and delivery. (*Claude Code, Codex, Git worktree*)
- Integrated with AI to extract structured travel data and engineered a matching microservice that delivered real-time suggestions, connecting travellers with similar plans. (*OpenAI API Structured Output*)

### LifeLine (Delta Hacks 3: 2nd overall & Best Hardware Hack)

2017

- Built a wearable headpiece using IMU sensors with a paired Android app to detect driver fatigue in real time and alert users. (*Arduino, Go, Java*).

### WRCStats (Over 3K users)

2017

- Built a web application that tracked real-time gym attendance at Western University by scraping hourly Twitter data and serving visualized trends to students, helping over 3,000 users find the best times to work out. (*MongoDB, Express, Angular, Node.js, Puppeteer, Chart.js*)

## SKILLS

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JavaScript, TypeScript  
Node.js, React, Angular

Python, Django  
PostgreSQL, MongoDB

Jest, Mocha  
AWS, Docker, Kubernetes

C#, .NET  
OpenAI API

References will be sent directly upon request